

Chapter 12 DNA and RNA**Section 12-1 DNA (pages 287-294)**

This section tells about the experiments that helped scientists discover the relationship between genes and DNA. It also describes the chemical structure of the DNA molecule.

Griffith and Transformation (pages 287-289)

1. What did Frederick Griffith want to learn about bacteria? He wanted to learn how certain types of bacteria produce pneumonia.
2. The strain of bacteria that caused pneumonia grew into smooth colonies on culture plates; harmless bacteria produced colonies with rough edges.
3. Circle the letter of each sentence that is true about Griffith's experiment.
 - ☒ a. Mice injected with bacteria from smooth colonies died.
 - ☐ b. Mice injected with bacteria from rough colonies died.
 - ☐ c. Mice injected with heat-killed bacteria from smooth colonies died.
 - ☒ d. Mice injected with a mixture of bacteria from heat-killed smooth colonies and live rough colonies died.
4. What result from Griffith's experiment suggested that the cause of pneumonia was not a chemical poison released by the disease-causing bacteria? The mice survived after being injected with heat-killed disease-causing bacteria.
5. What is transformation? It is the process by which one strain of bacteria changes into another.
6. What hypothesis did Griffith form from the results of his experiments? Some factor, which might be a gene, was transferred from the heat-killed bacteria cells into the live cells.

Avery and DNA (page 289)

7. Is the following sentence true or false? Avery and his colleagues thought that the molecule required in transformation might also be the molecule of the gene.
true
8. Briefly describe how Avery and his group determined which molecule was most important for transformation? They treated the extract of heat-killed bacteria with enzymes that destroyed proteins, lipids, carbohydrates, and other molecules, including RNA and DNA.

Answers Dna Biology And Technology 13

Jeffrey C. Pommerville



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NCERT Class 12 Biology Solutions. CN Experts,2017-12-05 CBSE Biology for class 12 has been strictly published according to the latest syllabus prescribed by the CBSE New Delhi The book has been thoroughly revised and a new feature for those students who want to attempt some more challenging problems provides Hints Solutions for the exercises of each chapter at the end of the corresponding chapter **Molecular Biology and Biotechnology** John M. Walker,E. B.

Gingold,1993 This volume provides a revised and updated introduction to the techniques of molecular biology and its industrial applications It should be of particular benefit to undergraduates and researchers in other biological areas

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Commercialization of Biotechnology United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Technology and Competitiveness, 1992

The Gender and Science Reader Muriel Lederman, Ingrid Bartsch, 2001 The Gender and Science Reader brings together key articles in a comprehensive investigations of the nature and practice of science

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Alcamo's Fundamentals of Microbiology, *Alcamo's Fundamentals of Microbiology: Body Systems* Jeffrey C. Pommerville, 2009-03-03

Nucleic Acids in Chemistry and Biology G Michael Blackburn, Michael J Gait, David Loakes, David M Williams, 2015-11-09 The structure function and reactions of nucleic acids are central to molecular biology and are crucial for the understanding of complex biological processes involved Revised and updated Nucleic Acids in Chemistry and Biology 3rd Edition discusses in detail both the chemistry and biology of nucleic acids and brings RNA into parity with DNA Written by leading experts with extensive teaching experience this new edition provides some updated and expanded coverage of nucleic acid chemistry reactions and interactions with proteins and drugs A brief history of the discovery of nucleic acids is followed by a molecularly based introduction to the structure and biological roles of DNA and RNA Key chapters are devoted to the chemical synthesis of nucleosides and nucleotides oligonucleotides and their analogues and to analytical techniques applied to nucleic acids The text is supported by an extensive list of references making it a definitive reference source This authoritative book presents topics in an integrated manner and readable style It is ideal for graduate and undergraduates students of chemistry and biochemistry as well as new researchers to the field

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